

CHAPTER 1064

Use of Sewers; Building Sewers and Connections

EDITOR'S NOTE: Unless otherwise indicated, this chapter was enacted on December 19, 1960, and amended on December 17, 1962.

- | | | | |
|---------|--|---------|--|
| 1064.01 | Definitions. | 1064.16 | Connection of building sewer to public sewer. |
| 1064.02 | Unlawful deposits of excrement, garbage or polluting waste. | 1064.17 | Inspection and supervision of connection. |
| 1064.03 | Unlawful discharges into natural outlets. | 1064.18 | Barricades and warning lights; restoration of public property. |
| 1064.04 | Connection with public sanitary sewer required; exception. | 1064.19 | Unlawful discharges into sanitary sewers. |
| 1064.05 | Use of public sewers or appurtenances; permit required. | 1064.20 | Discharge of storm and other unpolluted waters. |
| 1064.06 | Classes of permits; application; fees. | 1064.21 | Prohibited discharges. |
| 1064.07 | Costs; indemnification of authority. | 1064.22 | Use of grease, oil and sand interceptors. |
| 1064.08 | Separate sewer required for each building; exception. | 1064.23 | Maintenance of interceptors. |
| 1064.09 | Use of old sewers with new buildings. | 1064.24 | Approval required for discharge of certain wastes; pretreatment. |
| 1064.10 | Material specifications. | 1064.25 | Maintenance of pretreatment facilities. |
| 1064.11 | Diameter and slope of pipe. | 1064.26 | Control manholes. |
| 1064.12 | Laying of pipe; elevation; proximity to bearing walls; curves. | 1064.27 | Measurements, tests and analyses. |
| 1064.13 | Pumping of sewage. | 1064.28 | Special agreements. |
| 1064.14 | Excavations and backfilling. | 1064.29 | Damaging sewage works. |
| 1064.15 | Joint and connection specifications. | 1064.30 | Right of entry. |
| | | 1064.31 | Notice of violations. |
| | | 1064.99 | Penalty. |

CROSS REFERENCES

Sewage disposal systems; bond issues - see Code of Va. ' ' 15.2-2122 et seq.
 Sanitation Authority - see ADM. Ch. 260
 Design and construction of sewers - see S.U. & P.S. 1060.04, 1060.05
 Use of sewers prohibited prior to approval - see S.U. & P.S. 1060.08
 Pretreatment of wastewater - see S. U. & P.S. Ch. 1068
 Sewerage facilities in subdivisions - see P. & Z. 1245.08

1064.01 DEFINITIONS.

As used in this chapter, unless the context specifically indicates otherwise:

- (a) "Authority" means the Loudoun County Sanitation Authority.
- (b) "Sewage works" means all facilities for collecting, pumping, treating and disposing of sewage.
- (c) "Sewage" means a combination of water-carried wastes from residences, business buildings, institutions and industrial establishments.
- (d) "Sewer" means a pipe or conduit for carrying sewage.
- (e) "Public sewer" means a sewer in which all owners of abutting properties have equal rights and which is controlled by public authority.
- (f) "Sanitary sewer" means a sewer which carries sewage and to which storm, surface and ground waters are not intentionally admitted.
- (g) "Storm sewer" or "storm drain" means a sewer that carries storm and surface waters and drainage but that does not carry sewage and polluted industrial wastes.
- (h) "Sewage treatment plant" means any arrangement of devices and structures used for treating sewage.
- (i) "Industrial wastes" means the liquid wastes from industrial processes as distinct from sanitary sewage.
- (j) "Garbage" means solid wastes from the preparation, cooking and dispensing of food and from the handling, storage and sale of produce.
- (k) "Properly shredded garbage" means the wastes from the preparation, cooking and dispensing of food that have been shredded to such a degree that all particles will be carried freely under the flow conditions normally prevailing in public sewers, with no particle greater than one-half inch in any dimension.
- (l) "Building drain" means that part of the lowest horizontal piping of a drainage system which receives the discharge from soil, waste and other drainage pipes inside the walls of the building and conveys it to the building sewer, beginning five feet outside the inner face of the building wall.
- (m) "Building sewer" means the extension from the building drain to the public sewer or other place of disposal.
- (n) "B.O.D." (denoting biochemical oxygen demand) means the quantity of oxygen utilized in the biochemical oxidation of organic matter under standard laboratory procedure in five days at twenty degrees Centigrade, expressed in parts per million by weight.
- (o) "pH" means the logarithm of the reciprocal of the weight of hydrogen ions in grams per liter of solution.
- (p) "Suspended solids" means solids that either float on the surface of, or are in suspension in, water, sewage or other liquids and which are removable by laboratory filtering.
- (q) "Natural outlet" means any outlet into a watercourse, pond, ditch, lake or other body of surface or ground water.
- (r) "Watercourse" means a channel in which a flow of water occurs, either continuously or intermittently.

1064.02 UNLAWFUL DEPOSITS OF EXCREMENT, GARBAGE OR POLLUTING WASTE.

No person shall place, deposit or permit to be deposited in an unsanitary manner upon public or private property within the County, or in any area under the jurisdiction of the County, any human excrement, garbage or other polluting waste.

1064.03 UNLAWFUL DISCHARGES INTO NATURAL OUTLETS.

No person shall discharge into any natural outlet within the County, or in any area under the jurisdiction of the County, any sanitary sewage, industrial wastes or other polluted waters, except where suitable treatment has been provided in accordance with the provisions of this chapter.

1064.04 CONNECTION WITH PUBLIC SANITARY SEWER REQUIRED; EXCEPTION.

The owners of all houses, buildings or properties used for human occupancy, employment, recreation or other purposes, situated within the County and abutting on any street, alley or right of way in which there is now located or may in the future be located a public sanitary sewer of the County, is hereby required at his expense to install suitable toilet facilities therein and to connect such facilities directly with the proper public sewer in accordance with the provisions of this chapter within ninety days after the date of official notice to do so, and thereafter to cease using any other method for the disposal of sanitary sewage, industrial wastes or other polluting waters, provided that such public sewer is within 100 feet of the property line and not more than 300 feet from the nearest of such houses, buildings or properties to be served. However, the owner of any such house, building or property that is now served by, or which at the time a public sewer may be made available thereto is served by, a septic tank system or privately owned sewage treatment plant, approved by the County Health Department, as provided in Chapter 1066, and, where required by statute, approved by the State Department of Health and the State Water Control Board, shall not be required to make such connection to the public sewer, provided that such sewage works are operated and maintained at all times in strict accordance with the requirements of such governmental agencies having jurisdiction and are not altered, enlarged or replaced.

1064.05 USE OF PUBLIC SEWERS OR APPURTENANCES; PERMIT REQUIRED.

No unauthorized person shall uncover, make any connection with or opening into, use, alter or disturb any public sewer or appurtenance thereof without first obtaining a written permit from the Loudoun County Sanitation Authority.

1064.06 CLASSES OF PERMITS; APPLICATION; FEES.

There shall be two classes of building sewer permits: one for residential and commercial service and one for service to establishments producing industrial wastes. In either case, the owner or his agent shall make application on a special form furnished by the Loudoun County Sanitation Authority. The permit application shall be supplemented by any plans, specifications or other information considered pertinent in the judgment of the Authority. A permit and inspection fee of thirty dollars (\$30.00) for a residential or commercial building sewer permit and sixty dollars (\$60.00) for an industrial building sewer permit shall be paid to the Authority at the time the application is filed.

1064.07 COSTS; INDEMNIFICATION OF AUTHORITY.

All costs and expenses incident to the installation and connection of building sewers shall be borne by the owner. The owner shall indemnify the Loudoun County Sanitation Authority for any loss or damage that may directly or indirectly be occasioned by the installation of the building sewer.

1064.08 SEPARATE SEWER REQUIRED FOR EACH BUILDING; EXCEPTION.

A separate and independent building sewer shall be provided for every building, except that where one building stands at the rear of another on an interior lot and no private sewer is available or can be constructed to the rear building through an adjoining alley, court, yard or driveway, the building sewer from the front building may be extended to the rear building and the whole considered as one building sewer.

1064.09 USE OF OLD SEWERS WITH NEW BUILDINGS.

Old building sewers may be used in connection with new buildings only when they are found, upon examination and test by the Loudoun County Sanitation Authority, to meet all the requirements of this chapter.

1064.10 MATERIAL SPECIFICATIONS.

The building sewer shall be cast iron soil pipe, A.S.T.M. Designation A74, the latest revision; vitrified clay sewer pipe, A.S.T.M. Designation C-200 (extra strength), the latest revision; or other suitable material approved by the Loudoun County Sanitation Authority. Extra heavy (XH) must be used in all road rights of way; service weight (SW) may be used from the right of way to the building. Joints shall be watertight and rootproof. Any part of the building sewer that is located within ten feet of a water service pipe shall be located at least one foot in elevation below the water pipe; constructed of corrosion-resistant cast iron soil pipe with leaded joints; and tested with a ten-foot head of water or equivalent and found to be tight. Cast iron pipe with leaded joints may be required by the Authority where the building sewer is exposed to damage by tree roots. If installed in filled or unstable ground, the building sewer shall be of cast iron soil pipe, except that nonmetallic material may be accepted if it is laid on a suitable concrete bed or cradle as approved by the Authority.

1064.11 DIAMETER AND SLOPE OF PIPE.

The size and slope of the building sewer shall be subject to the approval of the Loudoun County Sanitation Authority, but in no case shall the diameter be less than four inches for single-family dwelling units or less than six inches for multifamily dwelling units. The slope of the four-inch diameter pipe shall be not less than one-fourth of an inch per foot (two percent) and the slope of the six-inch diameter pipe shall be not less than one-eighth of an inch per foot (one percent).

1064.12 LAYING OF PIPE; ELEVATION; PROXIMITY TO BEARING WALLS; CURVES.

Whenever possible, the building sewer shall be brought to the building at an elevation below the basement floor. No building sewer shall be laid parallel to any bearing wall within three feet of such wall. The building sewer shall be laid at a uniform grade and in straight alignment insofar as possible. Changes in direction shall be made only with properly curved pipe and fittings.

1064.13 PUMPING OF SEWAGE.

In all buildings in which any building drain is too low to permit gravity flow to the public sewer, sanitary sewage carried by such drain shall be lifted by approved artificial means and discharged into the building sewer.

1064.14 EXCAVATIONS AND BACKFILLING.

All excavations required for the installation of a building sewer shall be open trench work unless otherwise approved by the Loudoun County Sanitation Authority. Pipe laying and backfill shall be performed in accordance with A.S.T.M. Designation C12, the latest revision, except that no backfill shall be placed until the work has been inspected.

1064.15 JOINT AND CONNECTION SPECIFICATIONS.

All joints and connections shall be made gastight and watertight and capable of withstanding internal water pressure of ten feet head (4.3 p.s.i.) for one hour without visible leakage or failure.

- (a) Cast iron pipe joints shall be the push-on type joint employing a rubber ring gasket which fits in an inside groove within the socket bell.
- (b) Compression joints shall conform to A.S.T.M. Designation C425, the latest revision.
- (c) O-Ring type round rubber joints shall conform to A.W.W.A. C302, the latest revision, Section 3.3 and Section 3.4, and shall be assembled as recommended by the manufacturer.
- (d) Asbestos-cement pipe joints shall be made with rubber rings, shall conform to A.S.T.M. Designation D1869, the latest revision, and shall be assembled as recommended by the manufacturer.
- (e) Other jointing materials and methods may be used only upon approval of the Loudoun County Sanitation Authority.

1064.16 CONNECTION OF BUILDING SEWER TO PUBLIC SEWER.

(a) The connection of the building sewer to the public sewer shall be made at the branch or spur provided, if such branch or spur is available at a suitable location. If no properly located branch or spur is available, the connection shall be made by the owner at his expense at the location designated by the Loudoun County Sanitation Authority and in a manner specified in the subsection (b) hereof, except that a saddle-type connection may be installed as specified in subsection (c) hereof, provided that the connection is of a design and manufacture approved by the Authority.

(b) If the public sewer is twelve inches in diameter or less, a joint of sewer pipe with a branch the size and type of the public sewer shall be installed in the sewer line by removing at least three joints of the existing sewer and replacing them with the new pipe and branch. The branch shall be so positioned that the crown of the building sewer pipe is higher than the crown of the public sewer. All joints shall be made gastight and watertight conforming to Section 1064.15. In no case shall connections be permitted by inserting standard fittings in rough cut holes in the public sewer and/or by encasement of such connections in concrete. The Authority reserves the right to require testing of watertightness of the connection.

(c) Saddle-type connections shall be installed on the sewer main with a smooth round hole machine-drilled into the pipe. The saddle-type fitting used in the connection shall be made in such a manner as to insure that no protrusion of the fitting into the main sewer results. The connector shall fit perfectly the contour of the inside of the sewer and shall be specifically designed to fit the particular size main into which the connection is made. The joint material used to connect the fitting to the sewer pipe shall be of the epoxy resin type and shall be completely waterproof and capable of withstanding any condition of stress or strain likely to be encountered in normal sanitary sewer construction or maintenance. Concrete encasement shall not be permitted. The fitting shall be manufactured of cast iron, vitrified clay or cast aluminum alloy and shall be capable of receiving the type of pipe approved herein for the building sewer. The crown of the building sewer at the point of connection shall be at a higher elevation than the crown of the public sewer. The Authority reserves the right to require testing of watertightness of the connection.

1064.17 INSPECTION AND SUPERVISION OF CONNECTION.

The applicant for the building sewer permit shall provide forty-eight hours notice to the Loudoun County Sanitation Authority when the building sewer is ready for inspection and connection to the public sewer. The connection shall be made under the supervision of the Authority or its representative.

1064.18 BARRICADES AND WARNING LIGHTS; RESTORATION OF PUBLIC PROPERTY.

All excavations for building sewer installation shall be adequately guarded with barricades and lights to protect the public from hazard. Streets, sidewalks, parkways and other public property disturbed in the course of the work shall be restored in a manner satisfactory to the governing body having jurisdiction over the same.

1064.19 UNLAWFUL DISCHARGES INTO SANITARY SEWERS.

No person shall discharge or cause to be discharged any storm water, surface water, ground water, roof runoff, subsurface drainage, foundation drainage, cooling water or unpolluted industrial process waters into any sanitary sewer.

1064.20 DISCHARGE OF STORM AND OTHER UNPOLLUTED WATERS.

Storm water and all other unpolluted drainage shall be discharged into storm sewers, where such are available, or into natural outlets approved by the Loudoun County Sanitation Authority. Industrial cooling water or unpolluted process waters may be discharged, upon approval of the Authority and the Director of the Department of Building and Development, into a storm sewer or natural outlet.
(Ord. 91-23. Passed 9-17-91.)

1064.21 PROHIBITED DISCHARGES.

Except as hereinafter provided, no person shall discharge or cause to be discharged any of the following described waters or wastes into any public sewer:

- (a) Any liquid or vapor having a temperature higher than 150 degrees Fahrenheit;
- (b) Any water or waste which may contain more than 100 parts per million, by weight, of fat, oil or grease;
- (c) Any gasoline, benzene, naphtha, fuel oil or other flammable or explosive liquid, solid or gas;
- (d) Any garbage that has not been properly shredded;
- (e) Any ashes, cinders, sand, mud, straw, shavings, metal, glass, rags, feathers, tar, plastics, wood, paunch manures or any other solid or viscous substance capable of causing obstruction to the flow in sewers or other interference with the proper operation of the sewage works;
- (f) Any waters or wastes having a pH lower than 5.5 or higher than 9.0, or having any other corrosive property capable of causing damage or hazard to structures, equipment and personnel of the sewage works;
- (g) Any waters or wastes containing a toxic or poisonous substance in sufficient quantity to injure or interfere with any sewage treatment process, constitute a hazard to humans or animals or create any hazard in the receiving waters of the sewage treatment plant;
- (h) Any waters or wastes containing suspended solids of such character and quantity that unusual attention or expense is required to handle such materials at the sewage treatment plant; or
- (i) Any noxious or malodorous gas or substance capable of creating a public nuisance.

1064.22 USE OF GREASE, OIL AND SAND INTERCEPTORS.

(a) Grease, oil and sand interceptors shall be provided when, in the opinion of the Loudoun County Sanitation Authority, they are necessary for the proper handling of liquid wastes containing grease in excessive amounts, or of flammable wastes, sand or other harmful ingredients, except that such interceptors shall not be required for private living quarters or dwelling units. All interceptors shall be of a type and capacity approved by the Authority and shall be so located as to be readily and easily accessible for cleaning and inspection.

(b) Grease and oil interceptors shall be constructed of impervious materials capable of withstanding abrupt and extreme changes in temperature. They shall be of substantial construction, watertight and equipped with easily removable covers which, when bolted in place, shall be gastight and watertight.

1064.23 MAINTENANCE OF INTERCEPTORS.

Where installed, all grease, oil and sand interceptors shall be maintained by the owner, at his expense, in continuously efficient operation at all times.

1064.24 APPROVAL REQUIRED FOR DISCHARGE OF CERTAIN WASTES; PRETREATMENT.

The admission into the public sewers of any waters or wastes having a five-day B.O.D. greater than 300 parts per million by weight, or containing more than 350 parts per million by weight of suspended solids, or containing any quantity of substances having the characteristics described in Section 1064.21, or having an average daily flow greater than two percent of the average daily sewage flow of the system, shall be subject to the review and approval of the Loudoun County Sanitation Authority. Where necessary, in the opinion of the Authority, the owner shall provide, at his expense, such preliminary treatment as may be necessary to reduce the B. O. D. to 300 parts per million and the suspended solids to 350 parts per million by weight, or reduce objectionable characteristics or constituents to within the maximum limits provided for in Section 1064.21, or control the quantities and rates of discharge of such waters or wastes. Plans, specifications and any other pertinent information relating to proposed preliminary treatment facilities shall be submitted for the approval of the Authority and of the State Water Control Board and no construction of such facilities shall be commenced until such approvals are obtained in writing.

1064.25 MAINTENANCE OF PRETREATMENT FACILITIES.

Where preliminary treatment facilities are provided for any waters or wastes, they shall be maintained continuously in satisfactory and effective operation by the owner at his expense.

1064.26 CONTROL MANHOLES.

When required by the Loudoun County Sanitation Authority, the owner of any property served by a building sewer carrying industrial wastes shall install a suitable control manhole in the building sewer to facilitate observation, sampling and measurement of the wastes. Such manholes, when required, shall be accessibly and safely located and shall be constructed in accordance with plans approved by the Authority. The manhole shall be installed by the owner at his expense and shall be maintained by him so as to be safe and accessible at all times.

1064.27 MEASUREMENTS, TESTS AND ANALYSES.

All measurements, tests and analyses of the characteristics of waters and wastes to which reference is made in Sections 1064.21 and 1064.24 shall be determined in accordance with "Standard Methods for the Examination of Water and Sewage," published jointly by the American Public Health Association and the American Water Works Association, and shall be determined at the control manhole provided for in Section 1064.26 or upon suitable samples taken at such control manhole. If no special manhole has been required, the control manhole shall be considered to be the nearest downstream manhole in the public sewer to the point at which the building sewer is connected.

1064.28 SPECIAL AGREEMENTS.

No statement contained in this chapter shall be construed as preventing any special agreement or arrangement between the Loudoun County Sanitation Authority and any industrial concern whereby an industrial waste of unusual strength or character may be accepted by the Authority for treatment, subject to payment therefor by the industrial concern.

1064.29 DAMAGING SEWAGE WORKS.

No unauthorized person shall maliciously, willfully or negligently break, damage, destroy, uncover, deface or tamper with any structure, appurtenance or equipment which is a part of the public sewage works. Any person violating this section shall be subject to immediate arrest under a charge of disorderly conduct.

1064.30 RIGHT OF ENTRY.

The Loudoun County Sanitation Authority and duly authorized employees of the Authority bearing proper credentials and identification shall be permitted to enter upon all properties for the purposes of inspection, observation, measurement, sampling and testing, in accordance with the provisions of this chapter.

1064.31 NOTICE OF VIOLATIONS.

Whoever is found to be violating any provision of this chapter, except Section 1064.29, shall be served by the Loudoun County Sanitation Authority with written notice stating the nature of the violation and providing a reasonable time limit for the satisfactory correction thereof. No person, within the period of time stated in such notice, shall fail to permanently cease all violations.

1064.99 PENALTY.

(EDITOR'S NOTE: See Section 202.99 for general Code penalty if no specific penalty is provided.)

In addition to the penalty provided in Section 202.99, whoever violates or fails to comply with any of the provisions of this chapter shall be liable to the Loudoun County Sanitation Authority for any expense, loss or damage occasioned the Authority by reason of such violation or noncompliance.